



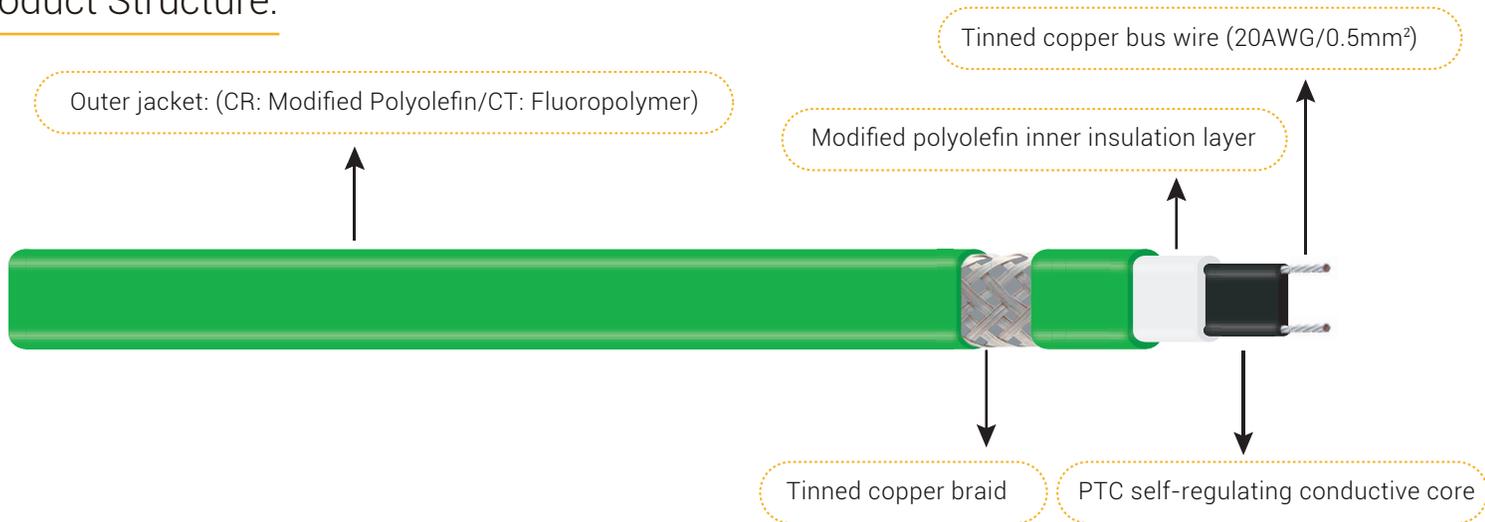
## HTM low temperature self-regulating heating cable

### Overview:

Jiahong HTM low temperature self-regulating heating cable can be used for pipe antifreeze in residential and commercial applications, and temperature maintenance under maximum exposure temperature (mainly for small pipe size as similar instrument pipe).

No matter whether the pipeline is overhead or buried installation, HTM heating cable can maintain the temperature and phase structure of the medium in the pipeline or vessel; Generally, HTM heating cable is mostly used to freeze protection and snow melting protection on water pipes, instrument pipe and similar pipes.

### Product Structure:



The extruded core tape, which is made by parallel tinned copper bus wire and PTC semiconductor polymer heating material, and inner insulation layer of modified polyolefin are added to tinned copper braid and the outer jacket form a complete structure of HTM heating cable, in which the outer jacket can be made of modified polyolefin material (CR) or fluoropolymer material (CT) according to different application or area.

### Product Feature:

- ◆ HTM heating cable is certified by CE (European Union) ETL(North America) and EAC (Russian), which can be used in the certified area.
- ◆ According to the characteristics of automatic adjustment of power output based on ambient temperature, it can avoid overheating or burning on heating cable even in the case of overlapping installation; Simultaneously this feature can increase the efficiency of the heat tracing system and reduce energy consumption.
- ◆ It is allowed to cut arbitrarily within the interval specified by the maximum circuit length and connect with compliance accessories.
- ◆ It has a complete series of accessory, including standard power box, splice/tee connection box and end seal box etc, which can ensure the long service life of the product.



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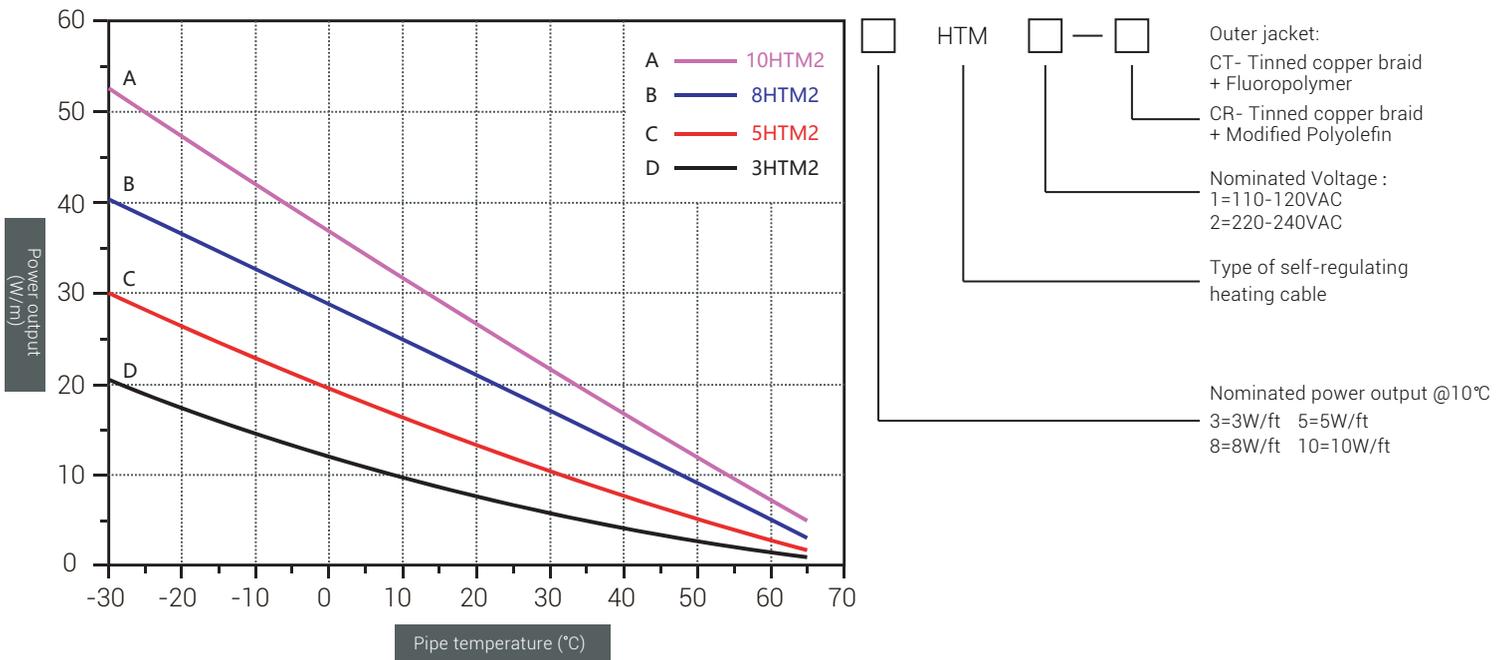




### Technical Specification:

Nominated Voltage:	110-120V(HTM1) / 220-240V(HTM2)
Maximum maintainece temperature:	+65°C (150°F)
Maximum intermittent exposure temperature:	+85°C (185°F)
Temperature classification:	T6
IP level:	IP66/67
Minimum installation temperature:	-60°C (-76°F)
Minimum bending radius:	30mm
Nominated power output @10°C:	3W/ft, 5W/ft, 8W/ft, 10W/ft
Dimension:	CR: 8.3mm (W) ×5.7mm (T)/CT: 7.7mm (W) ×5.1mm (T)
Approvals mark:	  

### Power output curve:



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120Vac Service Voltage:

CB size(A)	Start-up temperature °C (°F)	Max Circuit Length Vs Breaker Size (ft)			
		3HTM1	5HTM1	8HTM1	10HTM1
16	10 (50)	168	134	111	103
	0 (32)	168	134	111	99
	-10 (14)	168	111	111	87
	-20 (-4)	157	101	110	77
	-40 (-40)	145	77	103	68
20	10 (50)	168	134	111	103
	0 (32)	168	134	111	103
	-10 (14)	168	134	111	103
	-20 (-4)	168	134	111	103
	-40 (-40)	168	134	106	92
25	10 (50)	168	134	111	103
	0 (32)	168	134	111	103
	-10 (14)	168	134	111	103
	-20 (-4)	168	134	111	103
	-40 (-40)	168	134	111	103
32	10 (50)	168	134	111	103
	0 (32)	168	134	111	103
	-10 (14)	168	134	111	103
	-20 (-4)	168	134	111	103
	-40 (-40)	168	134	111	103
40	10 (50)	168	134	111	103
	0 (32)	168	134	111	103
	-10 (14)	168	134	111	103
	-20 (-4)	168	134	111	103
	-40 (-40)	168	134	111	103



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### 240Vac Service Voltage:

CB size(A)	Start-up temperature °C (°F)	Max Circuit Length Vs Breaker Size (ft)			
		3HTM2	5HTM2	8HTM2	10HTM2
16	10 (50)	336	267	223	205
	0 (32)	336	267	223	199
	-10 (14)	336	223	223	175
	-20 (-4)	315	202	219	154
	-40 (-40)	291	154	205	137
20	10 (50)	336	267	223	205
	0 (32)	336	267	223	205
	-10 (14)	336	267	223	205
	-20 (-4)	336	267	223	205
	-40 (-40)	336	267	212	185
25	10 (50)	336	267	223	205
	0 (32)	336	267	223	205
	-10 (14)	336	267	223	205
	-20 (-4)	336	267	223	205
	-40 (-40)	336	267	223	205
32	10 (50)	336	267	223	205
	0 (32)	336	267	223	205
	-10 (14)	336	267	223	205
	-20 (-4)	336	267	223	205
	-40 (-40)	336	267	223	205
40	10 (50)	336	267	223	205
	0 (32)	336	267	223	205
	-10 (14)	336	267	223	205
	-20 (-4)	336	267	223	205
	-40 (-40)	336	267	223	205

### Description:

1. The maximum circuit length shown is in accordance with IEC 60898, with Type C circuit breakers as standard, at reference start-up temperature and 10 °C Experimental data obtained from instantaneous trip current characteristics under maintenance temperature conditions. For the maximum loop length corresponding to other trip current characteristics or other types of circuit breakers, please contact the technical representative of Jiahong Company.

2. Although the heat tracing system is generally used to maintain the medium in the pipe or vessel at the required temperature level, the self-regulating heat tracing cable may be at a lower temperature level when it is energized. For design data when the starting temperature is lower than the above temperature, please contact the technical representative of Jiahong Company.

3. Maximum loop length refers to the continuous length of the heating cable, not the sum of the lengths of multiple sections. Relating to current load for each section, please contact the technical representative of Jiahong Company.



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